

Effect of Time on Growth

Iron oxide Catalyst with $\text{CO}:\text{H}_2::4:1$ at 550 C

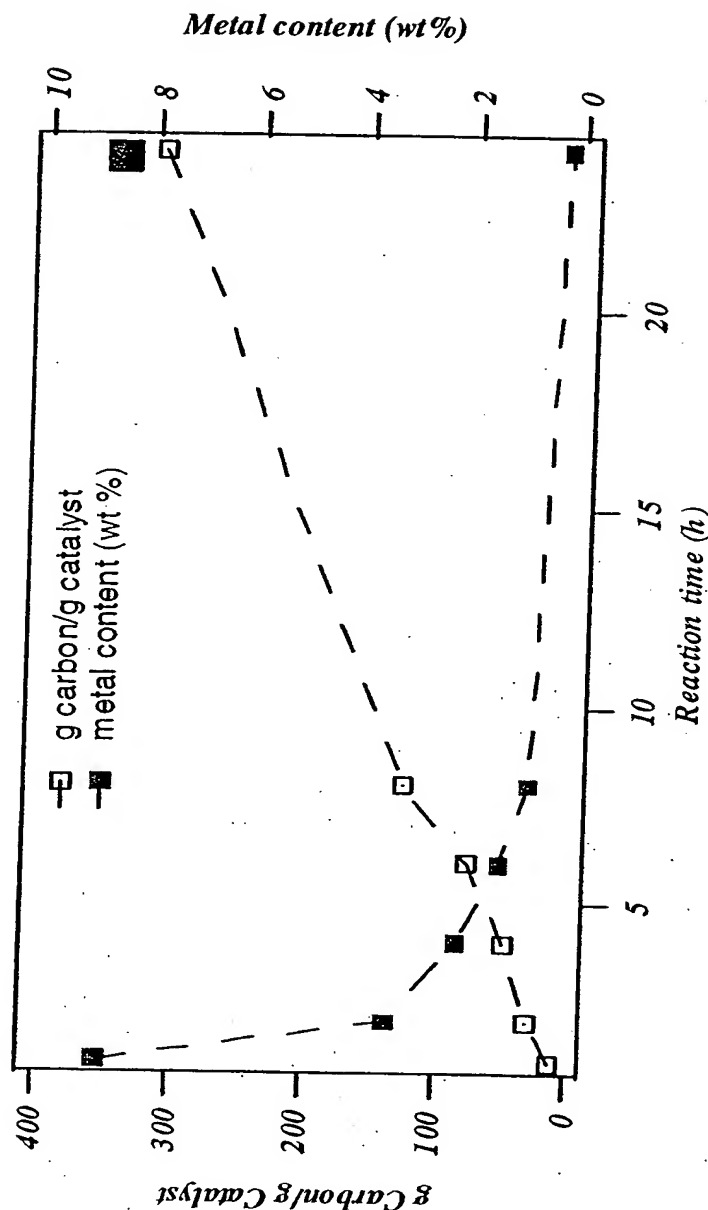


FIG. 1

GC data shows, the catalyst particle is still active even after 24h of reaction time.

Iron:Nickel Catalyst with $C_2H_4:H_2::1:4$ at 550 C

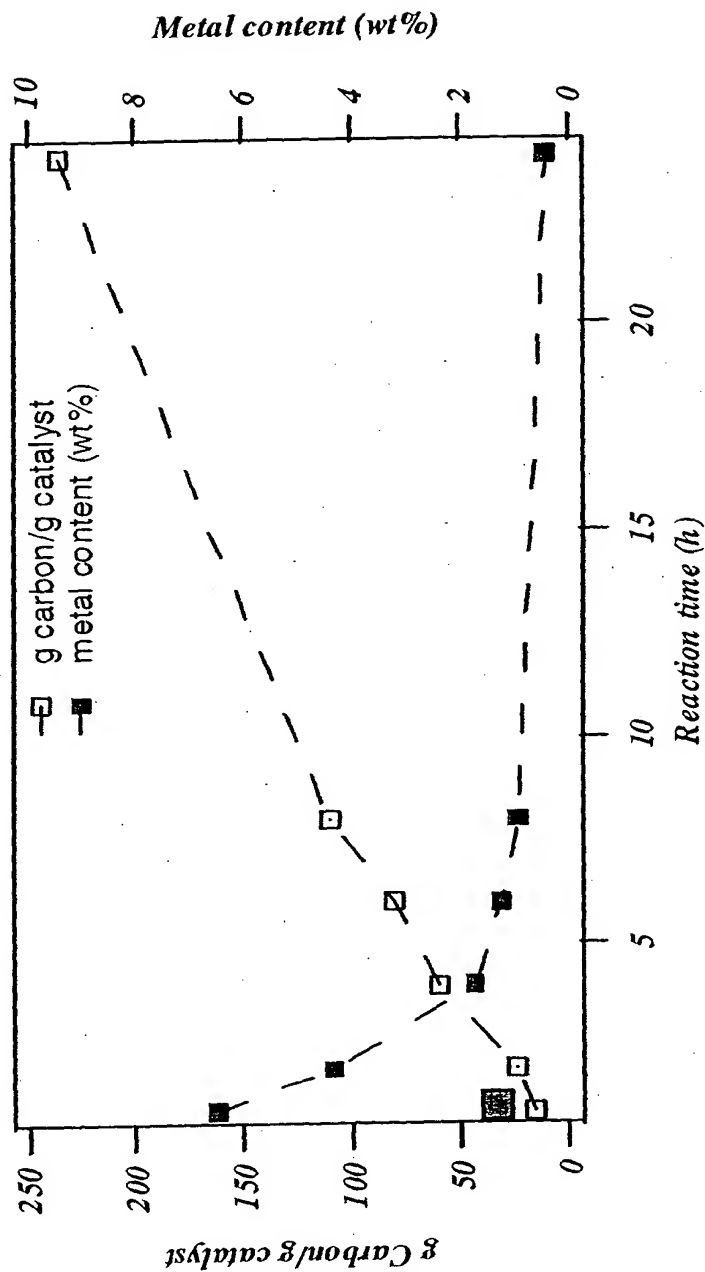


Fig. 2

In both catalyst system, we reach 99 % of C in 8 h reaction time.

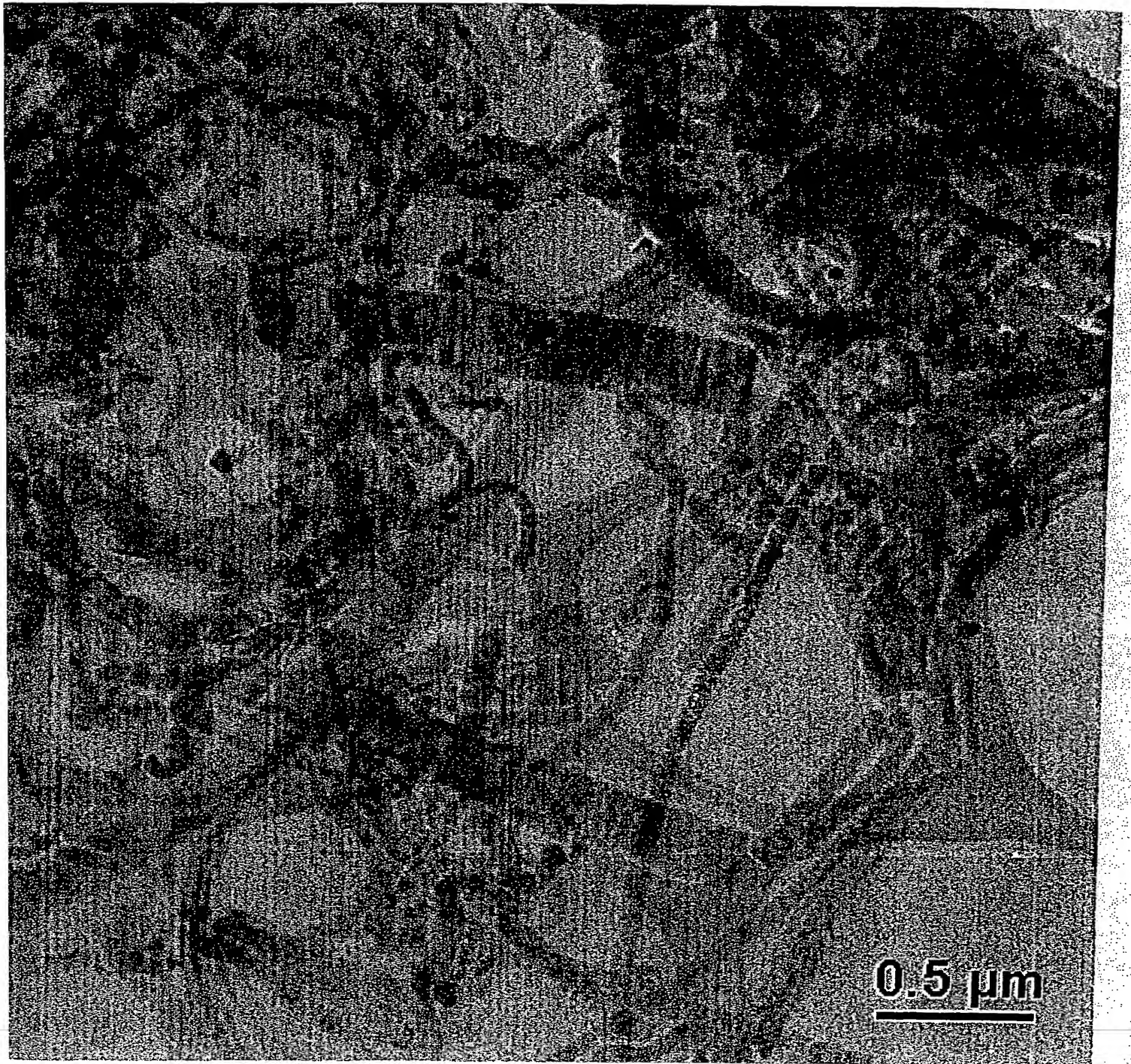


FIG. 3

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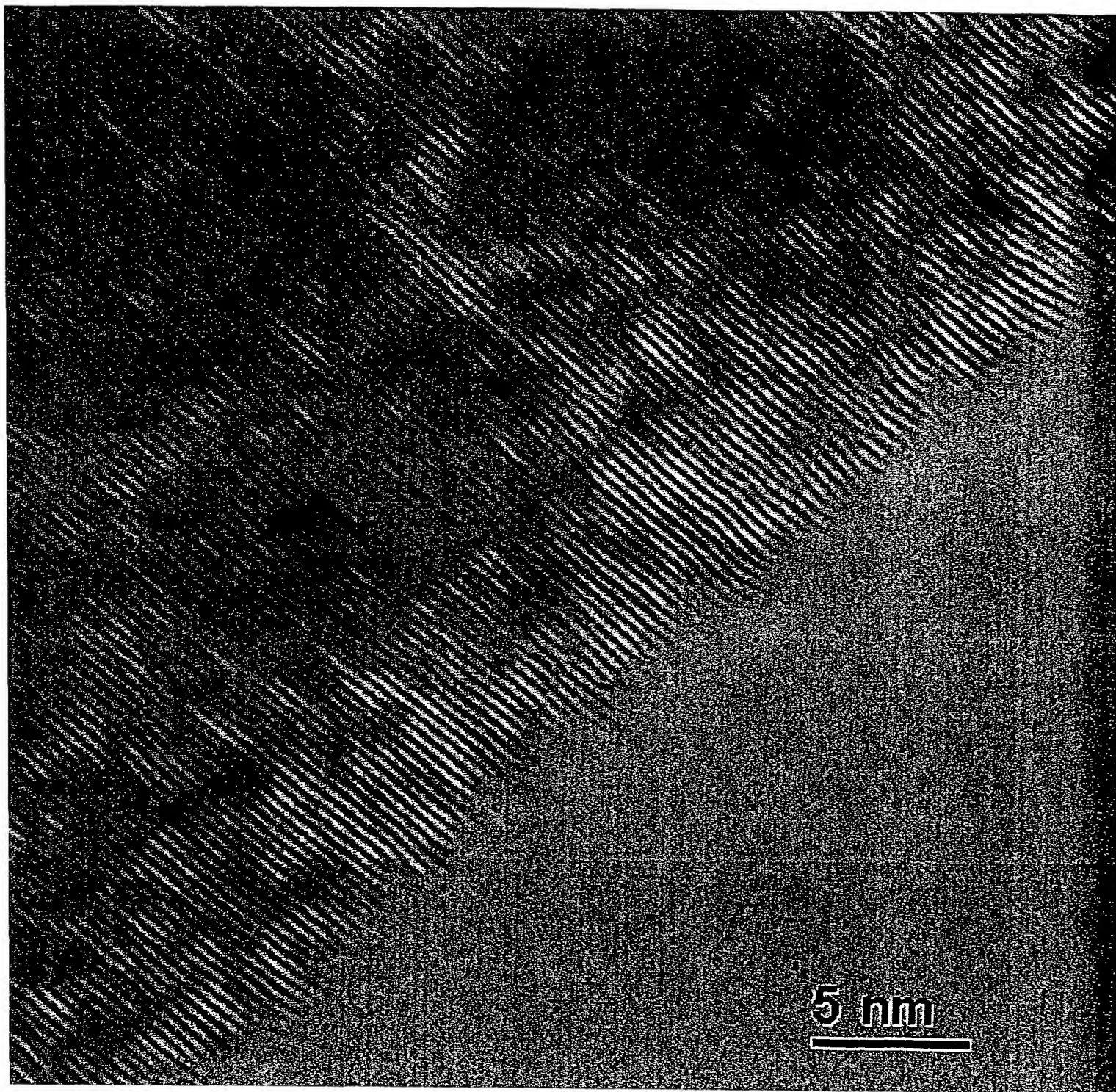


FIG. 4

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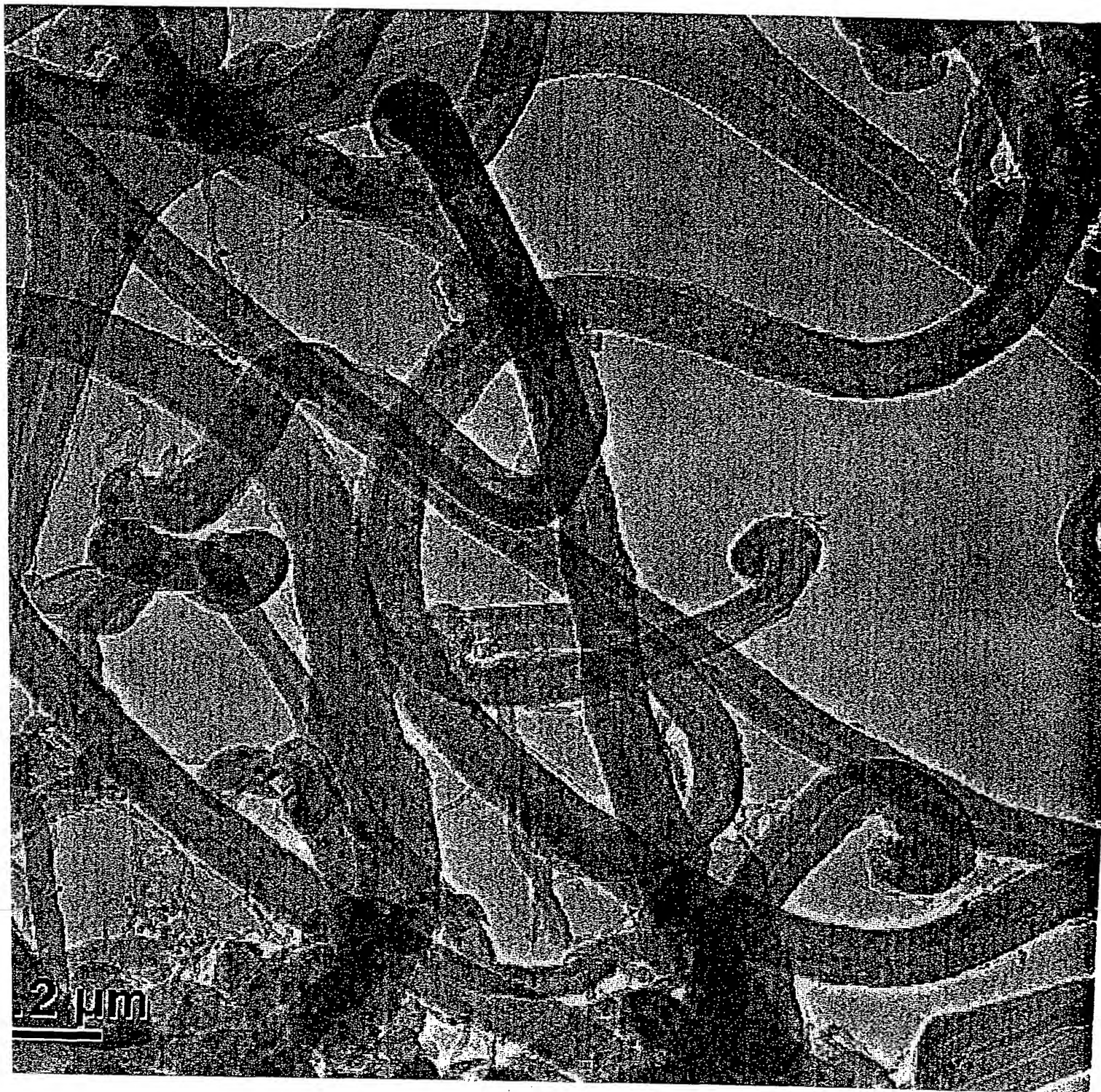


FIG. 5

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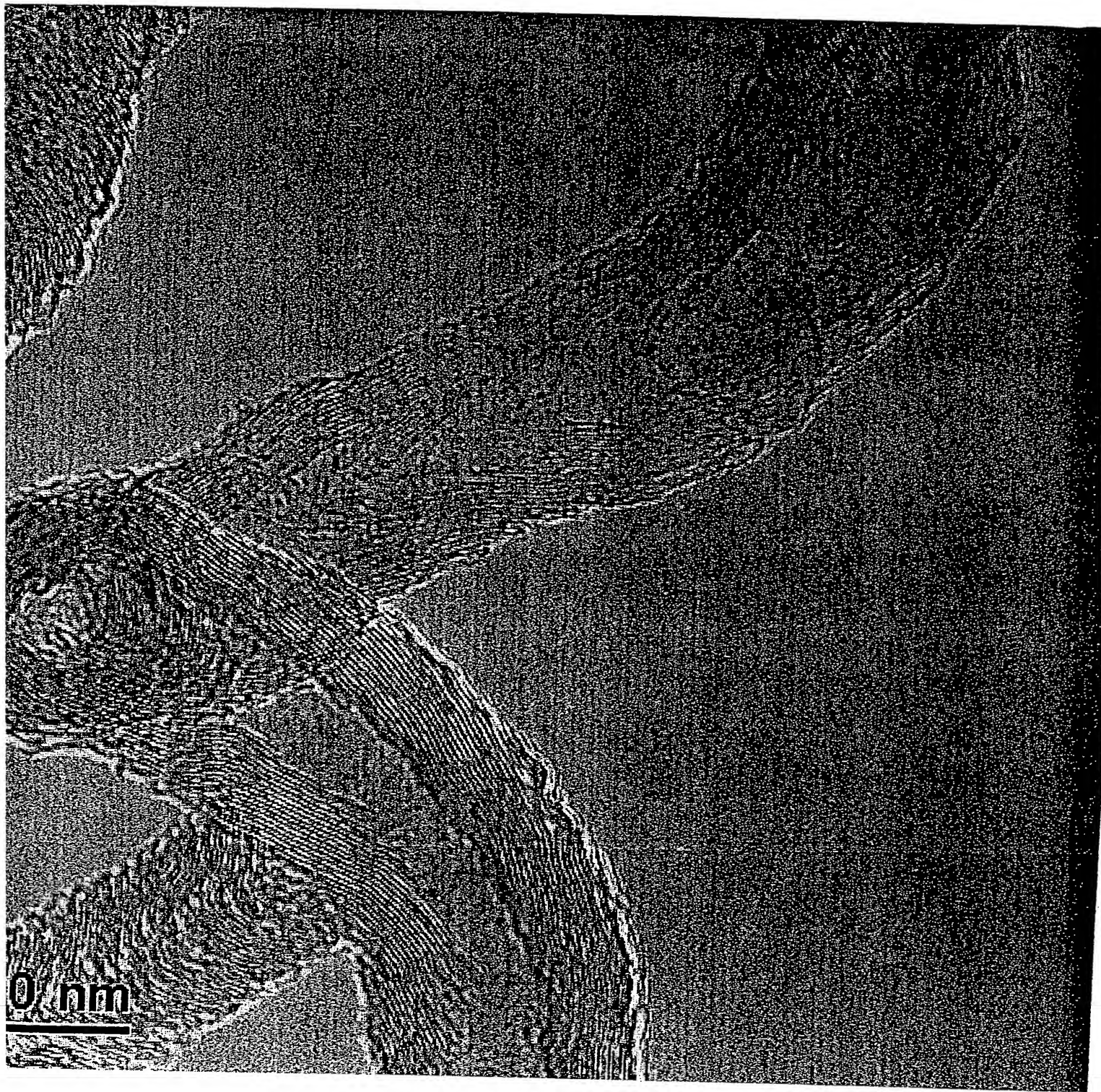


FIG. 6

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CO/H₂ @ 4:1 r_r

Platelet Morphology

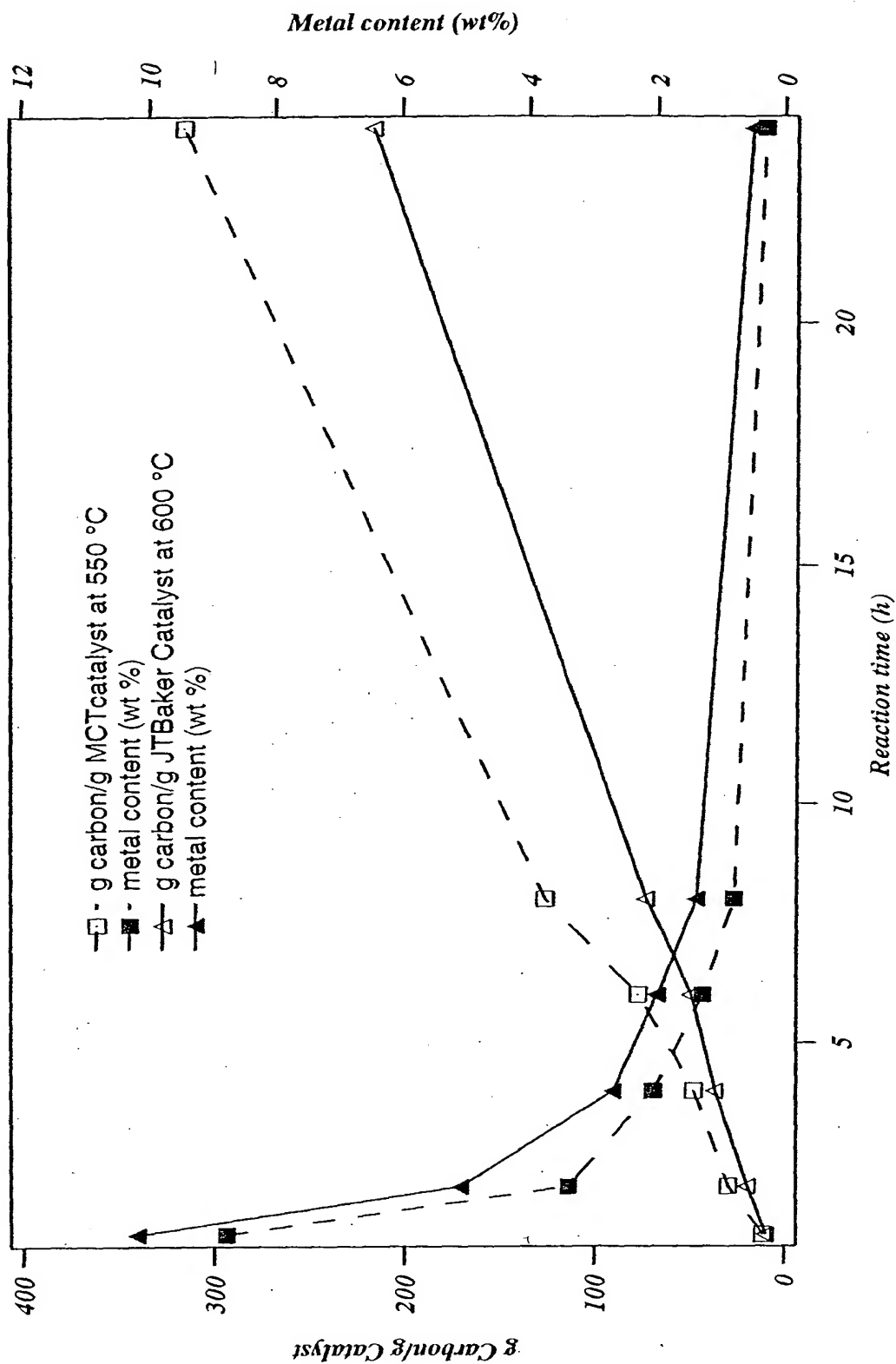


FIG-7

✓ Ni, Co +
 C_2H_4/H_2 @ 1:4 ratio

Tubular Morphology

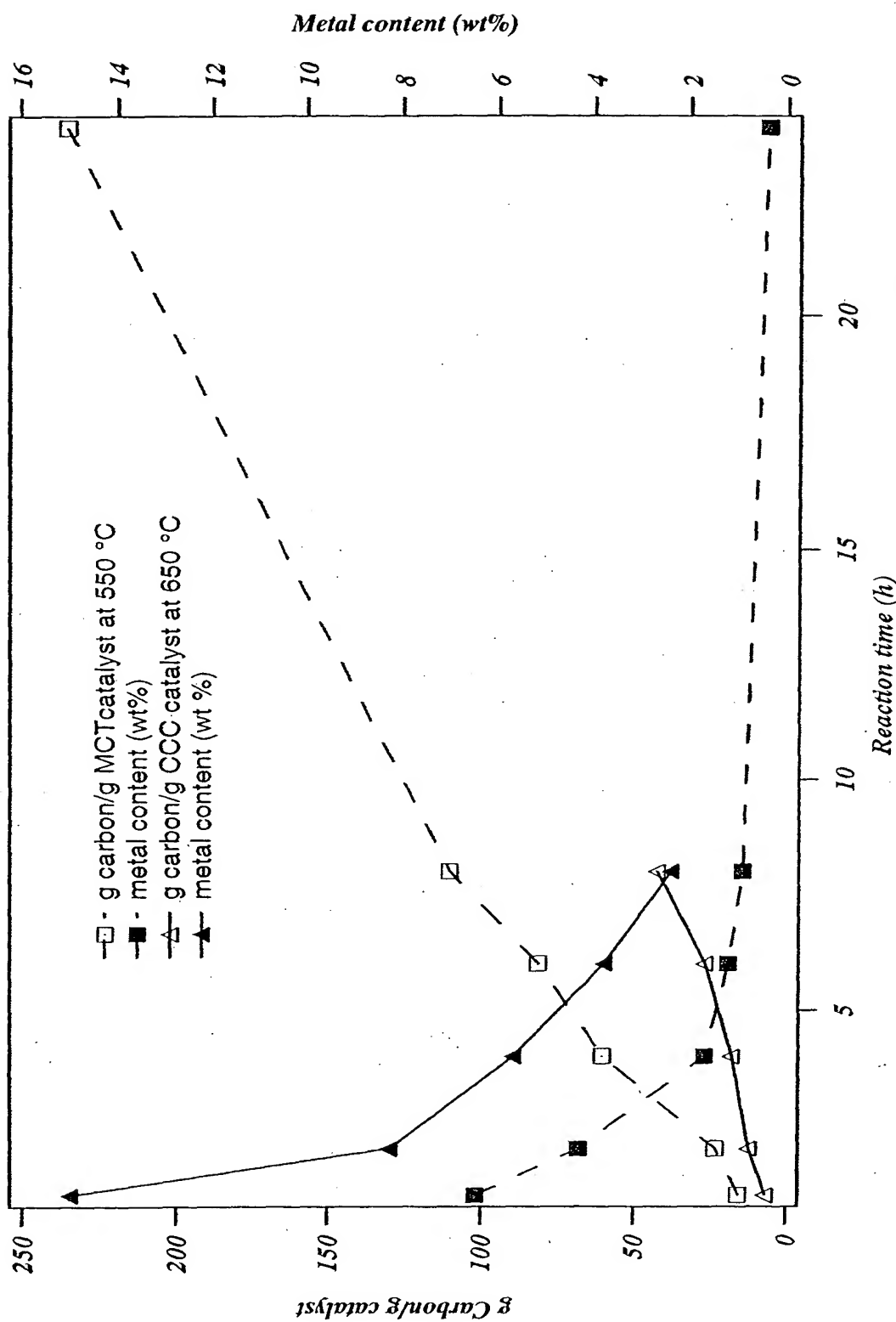


FIG. 8